V0 Interoperability Test SDP5

Test Objectives:

The objectives of this test are to verify that the users of the ECS Release A SDPS can make directory, inventory, and guide requests from the EOSDIS V0 IMS. The tests will also verify that EOSDIS V0 users will be able to make directory, inventory, and guide requests from the ECS Release A SDPS . Browse activities and product transfers will be conducted to demonstrate interoperability. Product order generation will be performed and verified for correctness. The following objectives will be confirmed when these tests are successfully executed.

- ECS Release A SDPS can access Directory information from the EOSDIS V0 IMS
- ECS Release A SDPS can access Inventory information from the EOSDIS V0 IMS
- ECS Release A SDPS can access Guide information from the EOSDIS V0 IMS
- ECS Release A SDPS can conduct Browse activities against the EOSDIS V0 IMS
- ECS Release A SDPS can order data products from the EOSDIS V0 IMS
- EOSDIS V0 IMS can access Directory information from the ECS Release A SDPS
- EOSDIS V0 IMS can access Inventory information from the ECS Release A SDPS
- EOSDIS V0 IMS can access Guide information from the ECS Release A SDPS
- EOSDIS V0 IMS can conduct Browse activities against the ECS Release A SDPS
- EOSDIS V0 IMS can order data products from the ECS Release A SDPS

This set of tests will confirm that scientist and non-scientist users will be able to enter specific requests for images and other data. The test will also confirm that data orders are provided via both FTP and magnetic media. The test package execution includes both the ECS client accessing the V0 server and the V0 client accessing the ECS server via an Xwindows GUI on UNIX Workstations and the World Wide Web.

Test Configuration:

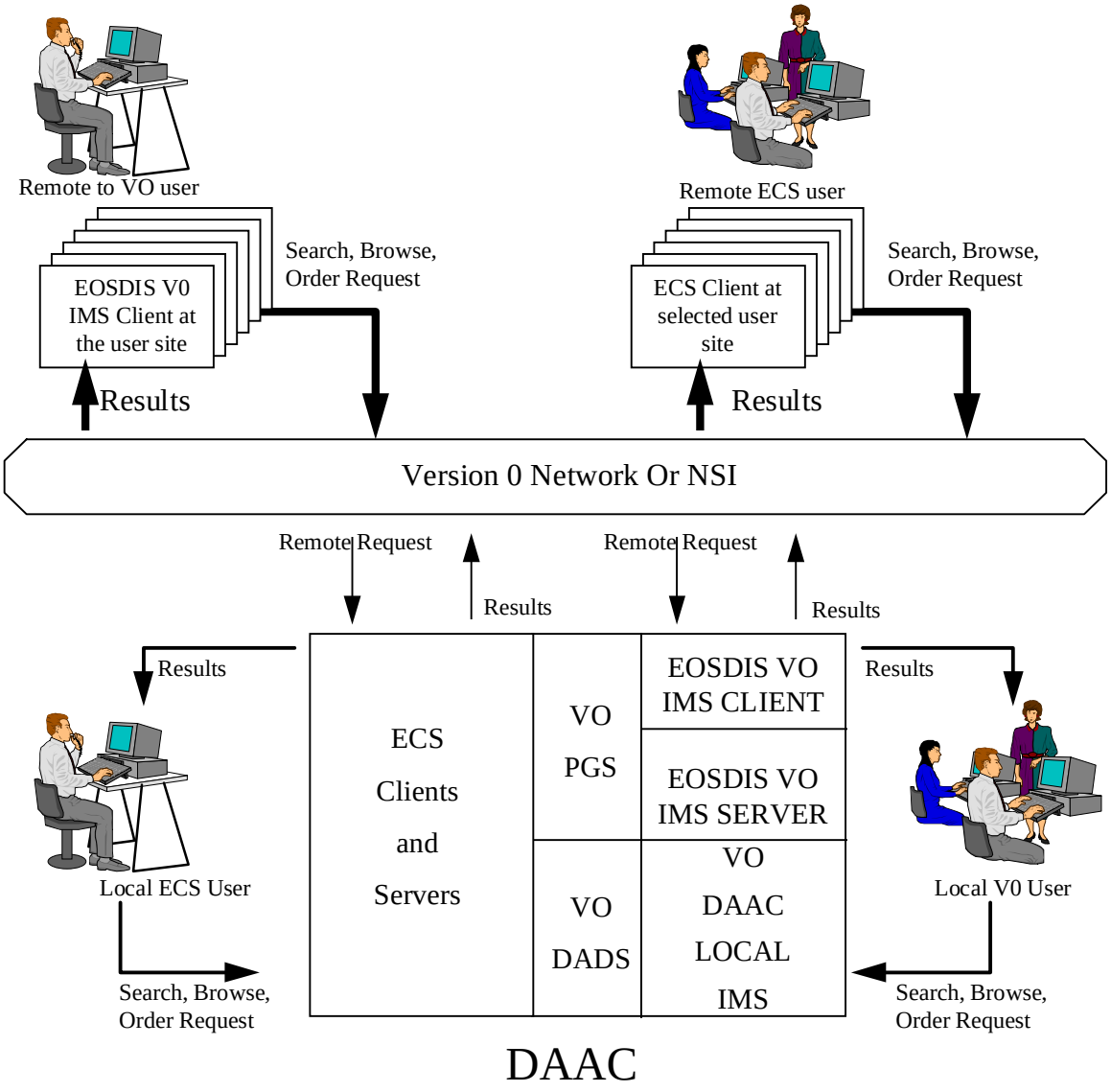

Exhibit 5-1
Relationship Between the V0 and the ECS

Participants and Support Requirements:

A. Participants:

ECS M&O personnel
GSFC M&O DAAC personnel
LaRC M&O DAAC personnel
EDC M&O DAAC personnel

B. Communications:

Voice-phone lines to systems personnel
Data- NSI nodes at each ECS/V0 DAAC
IP Addresses-TBD

C. Equipment and Software:

ECS Release A Search and Order Tool , (reused ECS Earth Science Search Tool)
UNIX workstation
IBM PC
Netscape 2.0 or better
V0 system:
- EOS V0 IMS client
- EOS V0 IMS Server
- Local V0 IMS at available DAAC's
- DAAC V0 DADS
- DAAC V0 PGS

D. Test Tools:

TMDB-Test Management Data Base

Xrunner - For use with GUIs in order to execute repetitive tests to be used during the Directory, Inventory (+Browse) and Guide tests

LoadRunner - For use with UNIX in order to execute queries.

E. Prerequisites: The completion of SDP1 Data Ingest

Test Data:

Description / Characteristics	Source	File/script name & Location
UARS ACRIM, temporal, 2 minutes		TBD
Landsat-5		TBD
GeoSat		TBD
NIMBUS-7 AMR, temporal,		TBD
GOES		TBD
NOAA AMSU, temporal		TBD
TRMM CER09/L4,Temporal,1 mth	TDS or other *	TDS-0051
TRMM LIS05/L2,Temporal,30 min	same	TDS-0052
TRMM VIRS/L4,Spatial, multiple bands	same	TDS-0053
TRMM PR/L3	same	TDS-0054
AM-1 AST07/L3	same	TDS-0060
AM-1 CER05/L4,Spatial	same	TDS-0062
AM-1 MIS07/L4	same	TDS-0064
AM-1 MOD05/L4	same	TDS-0066
Landsat-7 Level OR, 12 hrs	TBD	TBD

Test Case Descriptions:

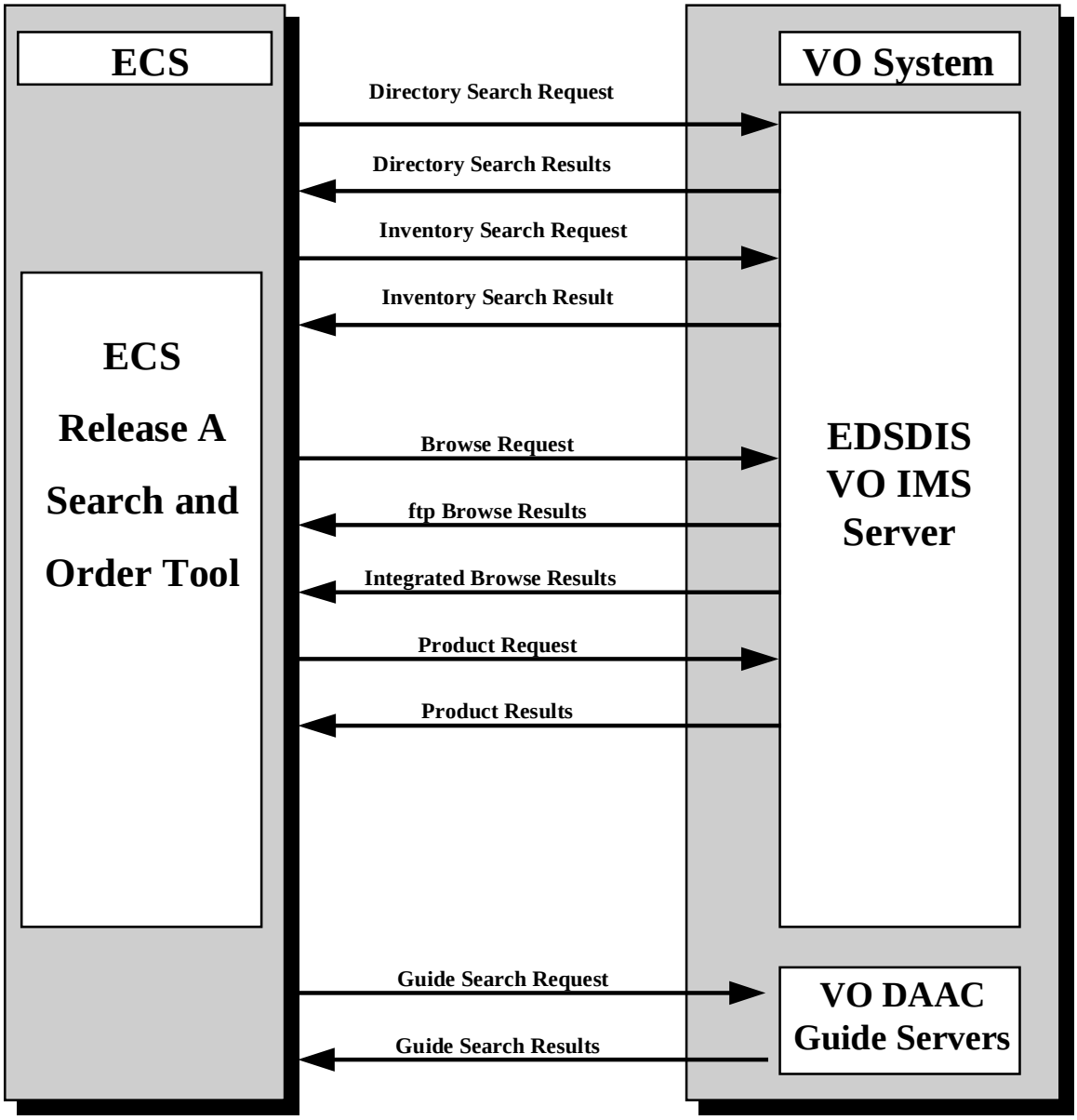

EXHIBIT 5-2
ECS as client; V0 as server

SDP5.1 ECS as client, V0 IMS as Server

The following tests will verify that ECS Release A has the capability to retrieve information from the V0 IMS. In effect the ECS acts like an EOSDIS V0 IMS Client querying across the DAACs.

Requirements To Be Verified:

IMS 0625 V0 0060 V0 0070 V0 0080
V0 0090 V0 0100 V0 0110 V0 0120
V0 0380

SDP5.1.1. Directory Search

A directory search request designed to produce a listing of data from multiple V0 DAACs will be submitted via the ECS Client. The list of data sets returned by the V0 IMS Server will be verified against the expected results list.

Landsat-5 data will be accessed through the EDC Release A client. A directory search will be implemented. Description attributes and Data center information will be verified.

REQUIREMENT

Req-ID	TEXT	Criticality
V0-0380#A	ECS shall have the capability to send and the ESDIS IMS team shall have the capability to receive Dependent Valids Information.	mission essential

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1.	Xterm @ SI&T site	telnet to the each of the selected DAAC's		The test shall be performed using the GSFC, LaRC, and EDC DAAC's

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2		Select the "HDS Setup" button by clicking on it with the mouse.	Window appears with **HDS>** for prompt	From this point on Select will mean using the mouse
3		At the prompt type: setenv DISPLAY 000.000.000.000:0.0 ENTER		The first four sets of zero's represent the IP Address example 192.31.4.70:0.0
4		At the prompt type: xhost + ; ENTER		
5		At the prompt type: telnet eosims.cr.usgs.gov 12345; ENTER		Location will change as appropriate to represent the appropriate DAAC
6		At the prompt type: 000.000.000.000:0	**ECS IMS** window should appear	The first four sets of zero's represent the IP

		ENTER		Address example 192.31.4.70:0.0
7		Select “New User” button	“Add New User” Window	
8		Enter “First Name; ENTER Enter “Last Name”; ENTER Select the “OK” button	“Add Access key” box	Cursor is not visible
9		Enter “Access key”; ENTER	“Reenter Access key” box	
10		Enter “Access key”; ENTER	“Remember Your Key” box	
11		Select “OK” button	“EOSDIS V0 IMS Start” box “EOSDIS IMS V0 Initializing” box	“OK” button does not need to be selected.
12		Select “OK” button	“Welcome” Screen	“User Profile” button may be better placed on the “Order” Screen
13		Select “Search Screen” button	“Search Screen”	
14		Select the “Directory” button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	Inventory and Guide are also available as radio buttons
15		Select the “List” button beside “Platform/Sources”	Returns “Valids list” box.	
16		Highlight LANDSAT-5 by clicking on the name and the “ADD->“ button	Selected item will move to the “Selected Platform/Source” list.	
17		Select “OK” button	Returns the “Search Screen with the appropriate items selected.	
18		Select the “List” button beside “Data Center”	Returns “Valids list” box.	
19		Highlight EDC by clicking on the name and the “ADD->“ button	Selected item will move to the “Selected Data Center” list.	
20		Select “Save Search” button to save the selected	“Save Search Criteria” Box appears.	

		criteria.		
21		Type an easy to remember name Using the DAAC and a abbreviation of the search and select the "Save" Button.	Closes Box	example name: GSFC.DIR.etc.etc
22		Select "Execute Search" button from the bottom of the screen	Communications Status screen appears	
23		Observe the Columns representing the search progress. Note if the "Receiving Results" column is highlighted. Note if the transaction is aborted.		
24		If the "Comments" button is highlighted Select it and observe the results	Returns a "Comments" screen	
25		When the "Completed Successfully" column is green select the "data" button	"Directory Results Screen" is displayed	
26		After verifying that the information matches the criteria selected, pick one of the data sets by selecting the "count" button	Item Highlighted	
27		Select "Detailed Directory" Button	Returns "Detailed Directory Information" Screen	
28		Verify the accuracy of the following information: a) Brief Description, b)Attribute, c) Data Center, d) Personnel, e) Reference	All information should correspond to the request entered for the LANDSAT-5 data.	
29		Select the "Current Data Set Information" under the Directory option under the "GO TO" menu.	Directory Results Screen appears after it is selected.	

30		Compare the Data set information with V0 search results and Searches from other DAAC's the detailed guide information.	This information is based on the search data criteria.	
31		Click on the "Next Data Center" option to view the results of the remaining searches.	The Directory information should match the criteria from the search entered for each data center	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
32		Select the "close" buttons on each screen	As the "close" buttons are selected the client "backs out" screen by screen until finished.	

SDP5.1.2. Inventory and Integrated Browse Search and Product Retrieval

The ECS client will formulate a series of queries to the V0 IMS Server. These queries will exercise a range of search criteria. The list of data sets which were returned will then be verified.

A number of data sets will be selected from the inventory search results and an integrated browse will be performed. The Server will respond with a browse results message followed by the corresponding image file. The data sets will then be ordered. The V0 IMS Server will return the corresponding result messages identifying hard media designations. A special request will be made for data to be expedited. In the event the data filled as is normal the data will still be tested.

GeoSat data will be accessed via a session to LaRC DAAC. The data will be accessed by entering specific criteria and integrated browse performed. The data will then be ordered on a 8MM tape format.

REQUIREMENTS

Req-ID	TEXT	Criticality
IMS-0625#A	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
V0-0060#A	The ECS shall have the capability to send and ESDIS V0 IMS shall have the capability to receive Inventory Search Requests via V0 protocols.	mission essential
V0-0070#A	The ESDIS V0 IMS shall have the capability to send and ECS shall have the capability to receive Inventory Search Results via V0 protocols.	mission essential
V0-0100#A	The ECS shall have the capability to send and the ESDIS V0 IMS shall have the capability to receive Browse Requests via V0 protocols.	mission essential
V0-0110#A	The ESDIS V0 IMS shall have the capability to send and the ECS shall have the capability to receive Browse Results via V0 protocols.	mission essential
V0-0120#A	The ECS shall have the capability to send and ESDIS V0 IMS shall have the capability to receive Product Requests via V0 protocols.	mission essential

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1.	Xterm @ SI&T site	telnet to the each of the selected DAAC's		The test shall be performed using the GSFC, LaRC, and EDC DAAC's

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2		Select the "HDS Setup" button by clicking on it with the mouse.	Window appears with **HDS>** for prompt	From this point on Select will mean using the mouse
3		At the prompt type: setenv DISPLAY 000.000.000.000:0.0 ENTER		The first four sets of zero's represent the IP Address example 192.31.4.70:0.0
4		At the prompt type: xhost + ; ENTER		
5		At the prompt type: telnet eosims.cr.usgs.gov 12345; ENTER		
6		At the prompt type: 000.000.000.000:0 ENTER	**ECS IMS** window should appear	The first four sets of zero's represent the IP Address example 192.31.4.70:0.0
7		Select "New User" button	"Add New User" Window	
8		Enter "First Name; ENTER Enter "Last Name"; ENTER Select the "OK" button	"Add Access key" box	
9		Enter "Access key"; ENTER	"Reenter Access key" box	
10		Enter "Access key"; ENTER	"Remember Your Key" box	Will be reused later to test user accessibility
11		Select "OK" button	"Release A ECS Start" box; and "Release A ECS Initializing" box	
12		Select "OK" button	"Welcome" Screen	"User Profile" button may be better placed on the "Order" Screen
13		Select "Search Screen" button	"Search Screen"	
14		Select the "Inventory" radio button	The radio button will appear depressed. The screen will change	Directory and Guide are also available as radio buttons

			accordingly informing you of special restrictions and options.	
15		Select the “Geographic Area” button	Pop up window with selections	
16		Select “Select From the Map” on the pop up menu	“Geographic Selection” Screen	
17		Select upper left most corner of North American continent by moving the pointer and clicking on the mouse	Returns a cross to mark the location	
18		Select the lower right most corner of the North American continent	A red box should appear enveloping your selected area.	
19		Select the “Search Screen”	Returns “Search Screen”	
20		Select the ”List” button beside “Platform/Source” criteria	Returns “Valids List” screen	
21		Choose NOAA-10 from the Platform/Source by highlighting with your mouse. Select items by high lighting and clicking on the “ADD>>“ button	Item moves to the selected list	
22		Select “OK” button	Returns you to the “Search Screen”	
23		Select the ”List” button beside “Data Center” criteria	Returns “Valids List” screen	
24		Choose LARC from the Data Center by highlighting with your mouse. Select items by high lighting and clicking on the “ADD>>“ button	LARC moves to the “Selected Data Centers” list	
25		Select “OK” button	Returns you to the “Search Screen”	
26		Select the ”List” button beside “Parameter” criteria	Returns “Valids List” screen	
27		Choose all items from the Parameter by highlighting with your mouse. Select	All items moves to the “Selected Data Centers” list	

		items by high lighting and clicking on the “ADD ALL>>“ button		
28		Select “OK” button	Returns you to the “Search Screen”	
29		Select the “Yes” button beside “ Browse Granules only:”	The button should appear depressed	
30		Select “Save Search” button		
31		Type an easy to remember name Using the DAAC and a abbreviation of the search and select the “Save” Button.	Closes Box	example name: GSFC.DIR.etc.etc
32		Select “Execute Search” button from the bottom of the screen	“Communications Status” screen appears	
33		If the “Comments” button is highlighted Select it and observe the results	Returns a “Comments” screen	
34		When the “Completed Status” column is green select the “data” button	“Inventory Results Screen” is displayed	
35		Check the “Browse available” (BA) column for the “Integrated Browse” (IB)capability and select it by clicking on the Browse column marked with a “B”.	IB appears in the “B” column.	“FTP Browse” (FB) is also offered as a selection
36		Select the “GO TO” from the menu bar by clicking on it.	Returns Popup Menu	
37		Make “Browse” Selection	Returns “ Integrated Browse” Screen.	
38		Observe the browse image		
39		Adjust the “Zoom” slide bar and observe the results	Display area should adjust itself accordingly.	
40		Select the “Close” button	Returns to the Inventory Results screen.	
41		Select the “Selection List” button	Returns “Inventory Selection List Screen”	

42		Select the first granule by clicking on the order column marked with an "O"	A "Y" appears in the "O" column	
43		Select the "Order Data" button	Returns the "Order Data" screen	"User Profile" button should be on this screen.
44		Select "Package Options" button	Returns Package Options Selection" Screen.	
45		Select "8MM 2GB Cartridge" from the "Mediatype" Column	"8MM 2GB Cartridge" moves to the selection area.	
46		Select "OK" button	Returns the "Order Data" Screen	
47		Select the "GO TO" from the menu bar by clicking on it.	Returns popup menu	
48		Select "User Profile"	Returns the "User Profile" Screen	
49		Fill in the appropriate information for "User" and select the "Save" button	Confirmation of save is returned	
50		Select the each of the other to radio buttons and select the "Copy from User profile" button.	Information previously filled in appears as in the "User Profile"	
51		Select the "Submit Order " button		

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
52		Select the "close" buttons on each screen	As the "close" buttons are selected the client "backs out" screen by screen until finished.	

SDP5.1.3. Guide Search

The ECS client will be used to generate guide requests to access V0 data from multiple DAAC's. The selected DAACs will create data lists which the ECS client will display, allowing the user to follow the links to the desired documents..
NIMBUS data will be accessed via a UNIX workstation from the (GSFC, LaRC, or EDC) DAAC entering specific search criteria, Guide search capabilities will then be utilized.

REQUIREMENTS

Req-ID	TEXT	Criticality

IMS-0625#A	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
V0-0080#A	ECS shall have the capability to send and EOSDIS V0 IMS shall have the capability to receive Guide Search Requests	mission essential
V0-0090#A	The EOSDIS V0 IMS shall have the capability to send and ECS shall have the capability to receive Guide Search Results.	mission essential

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1.	Xterm @ SI&T site	telnet to the each of the selected DAAC's		The test shall be performed using the GSFC, LaRC, and EDC DAAC's

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2	Xterm @ SI&T site	Select the "HDS Setup" button by clicking on it with the mouse	Window appears with **HDS>** for prompt	from here on Select will mean using the mouse
3		At the prompt type: setenv DISPLAY 000.000.000.000:0.0 ENTER		The first four sets of zero's represent the IP Address example 192.31.4.70:0.0 ENTER implies striking the "Enter" key
4		At the prompt type: xhost + ; ENTER		
5		At the prompt type: telnet eosims.cr.usgs.gov 12345; ENTER		Will change according to test being performed
6		At the prompt type: 000.000.000.000:0 ENTER	**ECS Client** window should appear	the first four sets of zero's represent the IP Address example 192.31.4.70:0.0;
7		Select "New User" button	"Add New User" Window	
8		Enter "First Name; ENTER Enter "Last Name"; ENTER Select the "OK" button	"Add Access key" box	
9		Enter "Access key"; ENTER	"Reenter Access key" box	
10		Enter "Access key"; ENTER	"Remember Your Key" box	
11		Select "OK" button	"ECS Client Start" box "ECS Client	

			Initializing" box	
12		Select "OK" button	"Welcome" Screen	"User Profile" button may be better placed on the "Order" Screen
13		Select "Search Screen" button	"Search Screen"	
14		Select the "Guide" button	The screen will change accordingly informing you of special restrictions and options.	Inventory and Directory are also available as radio buttons
15		Select NIMBUS from the Platform/Source by highlighting with your mouse. Select items by highlighting and clicking on the "ADD>>" button	NIMBUS moves to the "Selected Platform/Source" list.	
16		Choose from the list of options presented to you, no minimum requirements are necessary for the guide search	"Valids List" Window	At this time appropriate data has not been determined to produce the best results
17		Select items by high lighting and clicking on the "ADD>>"button	Item moves to the selected list	
18		Select "OK" button	Returns you to the "Search Screen"	
19		Select "Execute Search" button from the bottom of the screen	Communications Status screen appears	
20		When the "Completed Status" column is green select the "data" button	"Guide Display Screen" is displayed	
21		Pick one of the links by single clicking the line	HTML Link	
22		Select "Hit List" button to return to the link list	"Guide Display screen"	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
23		Select the "close" buttons on each screen	As the "close" buttons are selected the client "backs out" screen by screen until finished.	

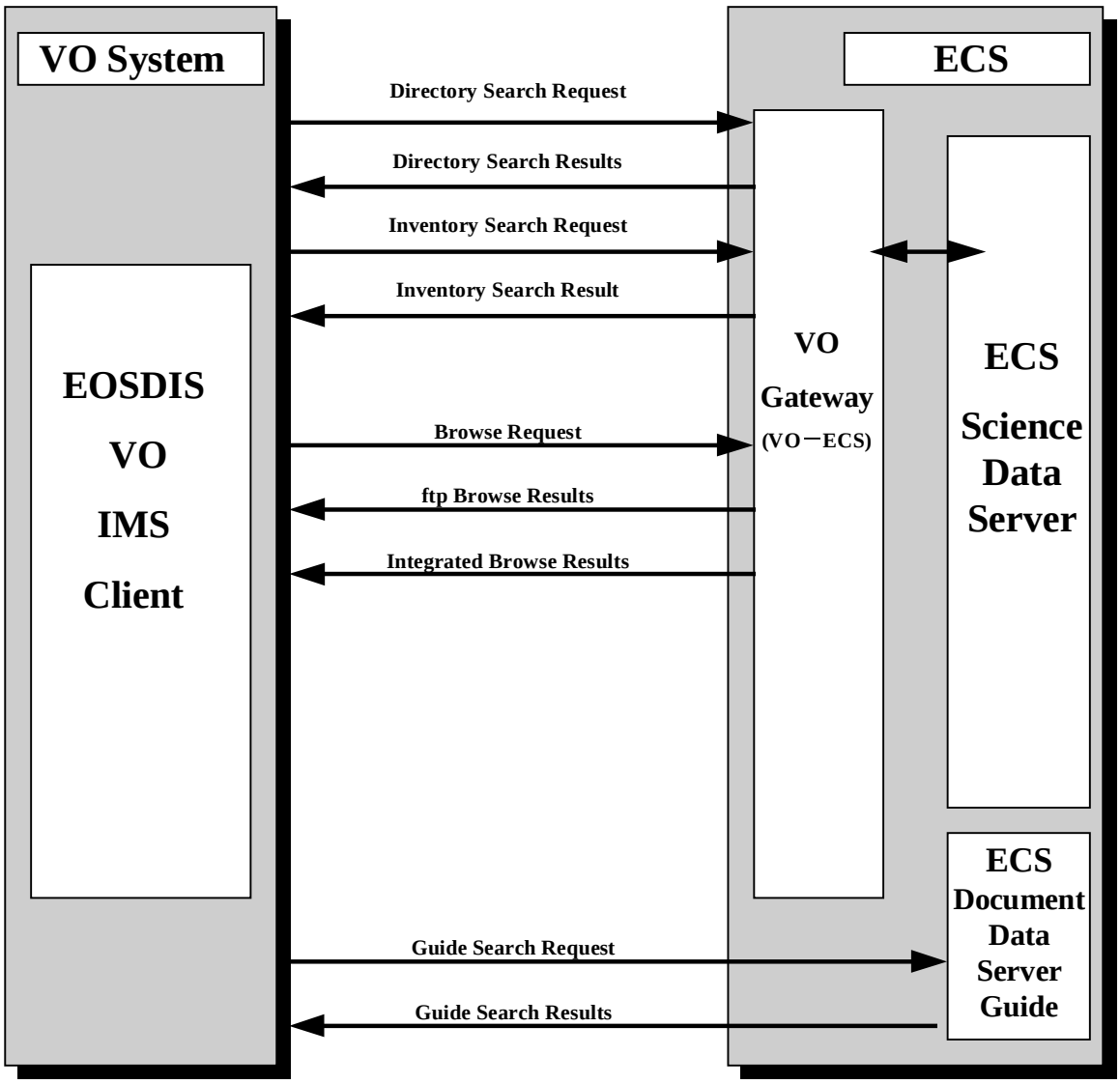

EXHIBIT 5-3
V0 as client; ECS as server

SDP5.2. V0 IMS as client, ECS as server

The following tests will verify that EOSDIS V0 IMS client has the capability to retrieve information from the Release A ECS Server.

Requirements To Be Verified:

EOSD 1740	IMS 0625	IMS 0915	V0 0150
V0 0160	V0 0170	V0 0180	V0 0190
V0 0200	V0 0230		

SDP5.2.1. Directory Search

A directory search request designed to produce a listing of data from multiple ECS DAACs will be submitted via the IMS Client. The list of data sets returned by the ECS Science Data Server will be verified against the expected result list.

This test verifies the capability of a V0 User to access TRMM LIS data by performing a Directory Search as a new user to the ECS server. The data will be obtained via the NSI on a UNIX workstation.

REQUIREMENTS

Req-ID	TEXT	Criticality
V0-0370#A	The DAAC(s) shall have the capability to send and ECS shall have the capability to receive Advertising Information	mission essential

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1.	Xterm @ SI&T site	telnet to the each of the selected DAAC's		The test shall be performed using the GSFC, LaRC, and EDC DAAC's

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1	Xterm @ SI&T site	Select the "HDS Setup" button by clicking on it with the mouse	Window appears with **HDS**> for prompt	from here on Select will mean using the mouse
2		At the prompt type: setenv DISPLAY 000.000.000.000:0.0 ENTER		The first four sets of zero's represent the IP Address example 192.31.4.70:0.0
3		At the prompt type: xhost + ; ENTER		
4		At the prompt type: telnet eosims.cr.usgs.gov 12345; ENTER		
5		At the prompt type: 000.000.000.000:0 ENTER	**Version 0 IMS** window should appear	The first four sets of zero's represent the IP Address example 192.31.4.70:0.0
6		Select "New User" button	"Add New User" Window	
7		Enter "First Name; ENTER Enter "Last Name"; ENTER Select the "OK" button	"Add Access key" box	
8		Enter "Access key"; ENTER	"Reenter Access key" box	
9		Enter "Access key"; ENTER	"Remember Your Key" box	

10		Select “OK” button	“EOSDIS V0 IMS Start” box “EOSDIS IMS V0 Initializing” box	
11		Select “OK” button	“Welcome” Screen	“User Profile” button may be better placed on the “Order” Screen
12		Select “Search Screen” button	“Search Screen”	
13		Select the “Directory” radio button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	Inventory and Guide are also available as radio buttons
14		Select Criteria for TRMM LIS from the list of options presented to you:		Include Platform/ Source, Instrument/Sensor, Processing Level, Data Center At this time appropriate data has not been determined to produce the best results
15		Select “Save Search” button to save the selected criteria.		
16		Type an easy to remember name Using the DAAC and a abbreviation of the search and select the “Save” Button.	Closes Box	example name: GSFC.DIR.etc.etc
17		Select “Execute Search” button from the bottom of the screen	Communications Status screen appears	
18		Observe the Columns representing the search progress. Note if the “Receiving Results” column is highlighted. Note if the transaction is aborted.		
19		If the “Comments” button is highlighted Select it and	Returns a “Comments” screen	

		observe the results		
20		When the “Completed Status” column is green select the “data” button	“Directory Results Screen” is displayed	
21		After verifying that the information matches the criteria selected, pick one of the data sets by selecting the “count” button	Returns “Detailed Directory Information” Screen	
22		Verify the accuracy of the following information: a) Brief Description, b)Attribute, c) Data Center, d) Personnel, e) Reference	All information should correspond to the request entered for the TRMM LIS data.	
23		Select the “Current Data Set Information” option under the “GO TO” menu.	Directory Results Screen appears after it is selected.	
24		Compare the Data set information with the detailed guide information.	This information is based on the search data criteria.	
25		Click on the “Next Data Center” option to view the results of the remaining searches.	The Directory information should match the criteria from the search entered for each data center	
26		Repeat steps 21 through 25 until all data centers have been chosen.	The data results from each center should match the search criteria inserted.	
27		Select “Detailed Information	New screen	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
28		Select the “close” buttons on each screen	As the “close” buttons are selected the client “backs out” screen by screen until finished.	

SDP5.2.2. Inventory and FTP Browse Search and Product Retrieval

The V0 user will formulate a series of queries to the ECS server. These queries will represent a select range of search criteria. The ECS server will then return a data set listing. The V0 user will submit a FTP browse request to the ECS Server. The Server will

stage the browse products to the browse FTP account and deliver e-mail notification to the user. The browse product will be picked up by the user.

TRMM CERES data will be accessed via a session to LaRC DAAC. The data will be accessed by entering specific criteria and a FTP browse performed. The data will then ordered on a 4MM tape format.

REQUIREMENTS

Req-ID	TEXT	Criticality
EOSD1740#A	ECS elements shall send the following types of data at a minimum to the ECS user community: a. Metadata b. Browse data c. Science data	mission essential
IMS-0625#A	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
IMS-0915#A	The IMS shall provide an interface to the Version 0 system for ordering data products to be delivered directly to the user, or as specified in ICDs.	mission essential
V0-0150#A	ESDIS V0 IMS shall have the capability to send and the ECS shall have the capability to receive Inventory Search Requests via V0 protocols.	mission essential
V0-0160#A	ECS shall have the capability to send and ESDIS V0 IMS shall have the capability to receive Inventory Search Results via V0 protocols.	mission essential
V0-0190#A	V0 ESDIS IMS shall have the capability to send and ECS shall have the capability to receive Browse Requests [implementation issue 2].	mission essential
V0-0200#A	The ECS shall have the capability to send and V0 ESDIS IMS shall have the capability to receive Browse Results [implementation issue 2].	mission essential
V0-0230#A	The ESDIS V0 IMS shall have the capability to send and ECS shall have the capability to receive Product Requests via V0 protocols.	mission essential

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1.	Xterm @ SI&T site	telnet to the each of the selected DAAC's		The test shall be performed using the GSFC, LaRC, and EDC DAAC's

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2	Xterm @ SI&T site	Select the "HDS Setup" button by clicking on it with the mouse	Window appears with **HDS>** for prompt	from here on Select will mean using the mouse
3		At the prompt type: setenv DISPLAY 000.000.000.000:0.0 ENTER		The first four sets of zero's represent the IP Address example 192.31.4.70:0.0 ENTER implies striking the "Enter" key
4		At the prompt type: xhost + ; ENTER		
5		At the prompt type: telnet eosims.cr.usgs.gov 12345;		

		ENTER		
6		At the prompt type: 000.000.000.000:0 ENTER	**Version 0 IMS** window should appear	the first four sets of zero's represent the IP Address example 192.31.4.70:0.0;
7		Select "New User" button	"Add New User" Window	
8		Enter "First Name; ENTER Enter "Last Name"; ENTER Select the "OK" button	"Add Access key" box	
9		Enter "Access key"; ENTER	"Reenter Access key" box	
10		Enter "Access key"; ENTER	"Remember Your Key" box	Will be reused later to test user accessibility
11		Select "OK" button	"EOSDIS V0 IMS Start" box "EOSDIS IMS V0 Initializing" box	
12		Select "OK" button	"Welcome" Screen	"User Profile" button may be better placed on the "Order" screen
13		Select "Search Screen" button	"Search Screen"	
14		Select the "Inventory" radio button	The screen will change accordingly informing you of special restrictions and options.	Directory and Guide are also available as radio buttons
15		Select the "Geographic Area" button	Pop up window with selections	
16		Select "Select From the Map"	"Geographic Selection" Screen	
17		Select upper left most corner of North American continent	Returns a cross to mark the location	
18		Select the lower right most corner of the North American continent	A red box should appear enveloping your selected area.	
19		Select the "Search Screen"	Returns "Search Screen"	
20		Select the "List" button beside "Platform/Search" criteria	Returns "Valids List" screen	

21		Choose TRMM CERES from the Platform/Source by highlighting with your mouse. Select items by high lighting and clicking on the "ADD>>"button	Item moves to the selected list	
22		Select "OK" button	Returns you to the "Search Screen"	
23		Select the "List" button beside the "Data Center" criteria	Returns "Valids list" screen	
24		Choose TBD from the Data Center by highlighting with your mouse. Select items by highlighting and clicking on the "ADD>>" button	TBD moves to the "Selected Data Centers" list	
25		Select "OK" button	Returns you to the "Search Screen"	
26		Select the "List" button beside the "Parameter" criteria	Returns "Valids list" screen	
27		Choose all items from the Parameter by highlighting with your mouse. Select items by highlighting and clicking on the "ADD ALL>>" button	All items move to the "Selected Parameters" list	
28		Select "OK" button	Returns you to the "Search Screen"	
29		Select the "Yes" button beside "Browse Granules only:"	The button should appear depressed	
30		Select "Save Search" button		
31		Type an easy to remember name Using the DAAC and a abbreviation of the search and select the "Save" Button.	Closes Box	example name: GSFC.DIR.etc.etc
32		Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
33		When the "Completed Status" column is green select the "data" button	"Inventory Results Screen" is displayed	

34		Check the "Browse available" (BA) column for the "Integrated Browse" (FB)capability and select it.	"FTP Browse" screen returned	"Integrated Browse" (IB) is also offered as a selection
35		Select the order button	Returns the "Order screen"	
36		Fill in the appropriate information. for ordering a 8MM tape	Confirmation returned.	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
37		Select the "close" buttons on each screen	As the "close" buttons are selected the client "backs out" screen by screen until finished.	

SDP5.2.3. Guide Search

The V0 IMS Client will be used to formulate a guide request designed to access the ECS DAAC. Data links will be created which the V0 IMS Client will display, allowing the user to follow the hyper-text links to the desired documents.
V0 Client software will be utilized to access TRMM data. The data will accessed by entering specific search criteria. Once the data sets are retrieved, Guide Search capabilities will be verified.

REQUIREMENTS

Req-ID	TEXT	Criticality
IMS-0625#A	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
V0-0170#A	V0 ESDIS IMS shall have the capability to send and ECS shall have the capability to receive Guide Search Requests [implementation issue 2].	mission essential
V0-0180#A	The ECS shall have the capability to send and V0 ESDIS IMS shall have the capability to receive Guide Search Results [implementation issue 2].	mission essential

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1.	Xterm @ SI&T site	telnet to the each of the selected DAAC's		The test shall be performed using the GSFC, LaRC, and EDC DAAC's

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1	Xterm @ SI&T site	Select the "HDS Setup" button by clicking on it with the mouse	Window appears with **HDS>** for prompt	from here on Select will mean using the mouse
2		At the prompt type: setenv DISPLAY		The first four sets of zero's represent the IP

		000.000.000.000:0.0 ENTER		Address example 192.31.4.70:0.0 ENTER implies striking the "Enter" key
3		At the prompt type: xhost + ; ENTER		
4		At the prompt type: telnet eosims.cr.usgs.gov 12345; ENTER		to be replaced with the appropriate DAAC
5		At the prompt type: 000.000.000.000:0 ENTER	**Version 0 IMS** window should appear	the first four sets of zero's represent the IP Address example 192.31.4.70:0.0;
6		Select "New User" button	"Add New User" Window	
7		Enter "First Name; ENTER Enter "Last Name"; ENTER Select the "OK" button	"Add Access key" box	
8		Enter "Access key"; ENTER	"Reenter Access key" box	
9		Enter "Access key"; ENTER	"Remember Your Key" box	
10		Select "OK" button	"EOSDIS V0 IMS Start" box "EOSDIS IMS V0 Initializing" box	
11		Select "OK" button	"Welcome" Screen	"User Profile" may be better placed on the order screen.
12		Select "Search Screen" button	"Search Screen"	
13		Select the "Guide" button	The screen will change accordingly informing you of special restrictions and options.	Directory and Inventory searches are also available as radio buttons
14		Choose from the list of options presented to you, no minimum requirements are necessary for the guide search	"Valids List" Window	At this time appropriate data has not been determined to produce the best results
15		Select TRMM from the Platform/Source by	TRMM moves to the "Selected	

		highlighting with your mouse. Select items by highlighting and clicking on the “ADD>>” button	Platform/Source” list.	
16		Select “OK” button	Returns you to the “Search Screen”	
17		Select “Execute Search” button from the bottom of the screen	Communications Status screen appears	
18		When the “Completed Status” column is green select the “data” button	“Guide Display Screen” is displayed	
19		Pick one of the links by single clicking the line	HTML Link	
20		Select “Hit List” button to return to the link list	“Guide Display screen”	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
21		Select the “close” buttons on each screen	As the “close” buttons are selected the client “backs out” screen by screen until finished.	

*SDP5.3. V0 IMS as client(*Reused as Release A Search and Order Tool), *ECS as server*

The following tests will verify that EOSDIS V0 IMS client has the capability to retrieve information from the Release A ECS Server via the WWW.

Requirements To Be Verified:

EOSD 1740	IMS 0625	IMS 0915	V0 0150
V0 0160	V0 0170	V0 0180	V0 0190
V0 0200	V0 0230		

SDP5.3.1 Inventory and Interactive Browse Search with Product order

The tester, using the Release A Search and Order tool will formulate a series of queries to the ECS Server, to be delivered and transferred via the V0 Gateway. These queries will represent a select range of search criteria. V0 Client software will be utilized to access AM-1 data. The data will be accessed by entering specific search criteria. Once the data sets are retrieved, Inventory information will be verified. The data will be interactively browsed .

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1	IBM PC @ SI&T site	From the World Wide Web Enter the EOSDIS Version 0 IMS.	The client should display the EOS logo and EOSDIS Version 0 IMS title	URL *(http://harp.gsfc.nasa.gov/ims-bin/pub/imswelcome)*

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2		Select “New Search” button from the row of blue buttons beneath the EOS logo	The client should display the EOSDIS Version 0 Search Form.	
3		Select a Geographic Coverage to be covered		To simplify the test we will use only map selection.
4		Click on the map	Map Selection screen returned	
5		Click on one portion of the map	Returns the map with cross hairs to show the location of the first choice.	For test purposes we will stick to the North American Continent in the upper left hand corner of the area.

6		Click on a second portion of the map	Returns a map with the boxed in area that was select outlined in red	
7		Click on the “OK! Accept my input _return to the search form!” button.	Returns to the Search Form.	
8		Select the “Parameter” by clicking on the appropriate button.	The Select Data Center screen should be displayed	
9		Select the TBD Parameters by marking the appropriate boxes with an X	An “X” appears in the boxes clicked on.	
10		After all selections are made click on the “OK! Accept my input _Return to the search form!” button	The main search form should be returned at this point with the appropriate selections listed under parameter.	
11		Select the “Source/Platform” by clicking on the appropriate button.	The “Select Source/Platform” screen should be displayed	
12		Select the AM-1 Source/Platform by marking the appropriate boxes with an X	An “X” appears in the NOAA box clicked on.	
13		After all selections are made click on the “OK! Accept my input _Return to the search form!” button	The main search form should be returned at this point with the appropriate selections listed under “Source Platform”.	
14		Select the “Sensor/Instrument” by clicking on the appropriate button.	The “Select Sensor/Instrument screen should be displayed	
15		Select the TBD Sensor/Instrument by marking the appropriate boxes with an X	An “X” appears in the boxes clicked on.	
16		After all selections are made click on the “OK! Accept my input _Return to the search form!” button	The main search form should be returned with the appropriate selections listed under “Sensor/Instrument”	
17		Select the “Data Set” by	The Select Data Center	

		clicking on the appropriate button.	screen should be displayed	
18		Select the TBD Data Set by marking the appropriate boxes with an X	An “X” appears in the boxes clicked on.	
19		After all selections are made click on the “OK! Accept my input _Return to the search form!” button	The main search form should be returned at this point with the appropriate selections listed under “Data Set”	
20		Select the Data Center by clicking on the appropriate button.	The “Select Data Center” screen should be displayed	
21		Select the appropriate TBD Data Centers by marking the appropriate buttons with an X	An “X” appears in the boxes clicked on.	
22		After all selections are made click on the “OK! Accept my input _Return to the search form!” button	The main search form should be returned at this point	
23		Select a Date Range by entering the 01/01/1990 for the Start and 01/01/1996 for the End		
24		(Other Search options, leave as default)		
25		Click on the Start Search Button to start the Search.	Returns a “Search In Progress” Screen.	
26		Click on the “Communications Status “	Returns a “Search In Progress” Screen.	
27			Returns a “Search Completed” screen with the Data Centers the at returned information and the Number of Granules at each.	
28		Click on “data set listing”	Returns the “Data Set Listing” screen.	
29		Select Data Set by clicking on the “Select Data Set” box	An “X” marks the box when selected	
30		Select the “Granule List” button	Returns the “Granule Listing” Screen	

31		Select the "View Browse Product" button	Returns "Browse" Screen with view and selections of available GIF file's	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
32	IBM PC @ SI&T site	Select the "Close" Button	The client should back out of the system	

SPD5.3.2 Inventory and FTP Browse search and order

V0 Client software will be utilized to access Landsat-7 data. The data will be accessed by entering specific parameters and platforms. Once the data are retrieved, Inventory Search capabilities will be verified. The data will be ordered and then received via FTP(compressed).

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1	IBM PC @ SI&T site	From the World Wide Web Enter the EOSDIS Version 0 IMS.	The client should display the EOS logo and EOSDIS Version 0 IMS title	URL (*http://harp.gsfc.nasa.gov/ims-bin/pub/imswelcome)*

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2		Select "New Search" button from the row of blue buttons beneath the EOS logo	The client should display the EOSDIS Version 0 Search Form.	
3		Select a Geographic Coverage to be covered		to simplify the test we will use only map selection.
4		Click on the map	Map Selection screen returned	
5		Click on one portion of the map	Returns the map with cross hairs to show the location of the first choice.	For test purposes we will stick to the North American Continent in the upper left hand corner of the area.
6		Click on a second portion of the map	Returns a map with the boxed in area that was select outlined in red	
7		Click on the "OK! Accept my input _return to the	Returns to the Search Form.	

		search form!" button.		
8		Select the "Parameter" by clicking on the appropriate button.	The Select Data Center screen should be displayed	
9		Select the X Parameters by marking the appropriate boxes with an X	An "X" appears in the boxes clicked on.	
10		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point with the appropriate selections listed under parameter.	
11		Select the "Source/Platform" by clicking on the appropriate button.	The "Select Source/Platform" screen should be displayed	
12		Select the LANDSAT-7 Source/Platform by marking the appropriate boxes with an X	An "X" appears in the LANDSAT-7 box clicked on.	
13		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point with the appropriate selections listed under "Source Platform".	
14		Select the "Sensor/Instrument" by clicking on the appropriate button.	The "Select Sensor/Instrument screen should be displayed	
15		Select the TBD Sensor/Instrument by marking the appropriate boxes with an X	An "X" appears in the boxes clicked on.	
16		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned with the appropriate selections listed under "Sensor/Instrument"	
17		Select the "Data Set" by clicking on the appropriate button.	The Select Data Center screen should be displayed	
18		Select the TBD Data Set by marking the appropriate boxes with an X	An "X" appears in the boxes clicked on.	

19		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point with the appropriate selections listed under "Data Set"	
20		Select the Data Center by clicking on the appropriate button.	The "Select Data Center" screen should be displayed	
21		Select the appropriate TBD Data Centers by marking the appropriate buttons with an X	An "X" appears in the boxes clicked on.	
22		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point	
23		Select a Date Range by entering the 01/01/1990 for the Start and 01/01/1996 for the End		
24		(Other Search options, leave as default)		
25		Click on the Start Search Button to start the Search.	Returns a "Search In Progress" Screen.	
26		Click on the "Communications Status "	Returns a "Search In Progress" Screen.	
27			Returns a "Search Completed" screen with the Data Centers the at returned information and the Number of Granules at each.	
28		Click on "data set listing"	Returns the "Data Set Listing" screen.	
29		Select Data Set by clicking on the "Select Data Set" box	An "X" marks the box when selected	
30		Select the "Granule List" button	Returns the "Granule Listing" Screen	
31		FTP the TBD data and verify		

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS

32	IBM PC @ SI&T site	Select the "Close" button	The client backs out of the system.	

SDP5.3.3 Guide Search

V0 Client software will be utilized to access TRMM data. The data will be accessed by entering specific criteria. Once the data sets are retrieved, Guide Search capabilities will be verified. The data will be ordered on 8MM tape.

TEST SET-UP

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
1	IBM PC @ SI&T site	From the World Wide Web Enter the EOSDIS Version 0 IMS.	The client should display the EOS logo and EOSDIS Version 0 IMS title	URL (*http://harp.gsfc.nasa.gov/ims-bin/pub/imswelcome)*

TEST EXECUTION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
2		Select "New Search" button from the row of blue buttons beneath the EOS logo	The client should display the EOSDIS Version 0 Search Form.	
3		Select a Geographic Coverage to be covered		To simplify the test we will use only map selection.
4		Click on the map	Map Selection screen returned	
5		Click on one portion of the map	Returns the map with cross hairs to show the location of the first choice.	For test purposes we will stick to the North American Continent in the upper left hand corner of the area.
6		Click on a second portion of the map	Returns a map with the boxed in area that was select outlined in red	
7		Click on the "OK! Accept my input return to the search form!" button.	Returns to the Search Form.	
8		Select the TBD "Parameter" by clicking on the appropriate button.	The Select Data Center screen should be displayed	
9		Select the Parameters by marking the appropriate	An "X" appears in the boxes clicked on.	

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
		boxes with an X		
10		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point with the appropriate selections listed under parameter.	
11		Select the "Source/Platform" by clicking on the appropriate button.	The "Select Source/Platform" screen should be displayed	
12		Select the TRMM Source/Platform by marking the appropriate boxes with an X	An "X" appears in the LANDSAT-5 box clicked on.	
13		Select the "DI" to the left of the TRMM selection	The "Detailed information Document" is returned for TRMM	
14		Use the browser's back key to return to the "Select Source/Platform" Screen		
15		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point with the appropriate selections listed under "Source Platform".	
16		Select the "Sensor/Instrument" by clicking on the appropriate button.	The "Select Sensor/Instrument screen should be displayed	
17		Select the TBD Sensor/Instrument by marking the appropriate boxes with an X	An "X" appears in the boxes clicked on.	
18		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned with the appropriate selections listed under "Sensor/Instrument"	
19		Select the "Data Set" by clicking on the appropriate button.	The Select Data Center screen should be displayed	
20		Select the TBD Data Set by	An "X" appears in the	

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
		marking the appropriate boxes with an X	boxes clicked on.	
21		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point with the appropriate selections listed under "Data Set"	
22		Select the Data Center by clicking on the appropriate button.	The "Select Data Center" screen should be displayed	
23		Select the appropriate TBD Data Centers by marking the appropriate buttons with an X	An "X" appears in the boxes clicked on.	
24		After all selections are made click on the "OK! Accept my input _Return to the search form!" button	The main search form should be returned at this point	
25		Select a Date Range by entering the 01/01/1990 for the Start and 01/01/1996 for the End		
26		(Other Search options, leave as default)		
27		Click on the Start Search Button to start the Search.	Returns a "Search In Progress" Screen.	
28		Click on the "Communications Status "	Returns a "Search In Progress" Screen.	
29			Returns a "Search Completed" screen with the Data Centers the at returned information and the Number of Granules at each.	
30		Click on "data set listing"	Returns the "Data Set Listing" screen.	
		Make Selections of the data sets returned by marking the appropriate boxes with an X and clicking on the button labeled "Put Granules"		
31		Select "Detailed Info"	Returns "Detailed Information	

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
			Document"	
32		Use browser's back key to return to "Data Set Listing" screen		
33		Select the second Data Set by marking a "X" in the "Select Data Set"	Marks and "X" in the "Select Data Set" box	
34		Select the "List" button at the top of the page	Return " Granule Listing" page	
35		Select the first two granules by marking a "X" in the "Select granule"	Marks and "X" in the "Select granule" box	
36		Select the Put in shopping cart" button at the top of the page.	Returns "Shopping Cart" Screen	
37		Select the "Choose Package" button for each granule	Returns "Choose Package" Screen	
38		Select the 8MM TAR button	Button is marked	
39		Select the "Assign options to all granules in the shopping cart for this data set" button	Button is marked	
40		Select the "OK! Accept my choice _return to the shopping cart!" button		
41		Select "Order" button	Returns "Order Form" Screen	
42		Fill in the appropriate billing information and select the "Submit order" button	"Order Submitted" Screen appears	

TEST TERMINATION

STEP	STATION	ACTION	EXPECTED RESULTS	COMMENTS
43	IBM PC @ SI&T site	Select the "Close" button	The client backs out of the system.	

Requirements to be Verified:

TEST	Req-ID	Source	TEXT	Criticality
SDP5.1.1	V0-0380#A	ECS F&PRS	ECS shall have the capability to send and the ESDIS IMS team shall have	mission essential

Directory Search			the capability to receive Dependent Valids Information.	
TEST	**Req-ID**	**Source**	**TEXT**	**Criticality**
SDP5.1.2 Inventory Search and product Retrieval	IMS-0625#A	ECS F&PRS	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
SDP5.1.2 Inventory Search and product Retrieval	V0-0060#A	ECS F&PRS	The ECS shall have the capability to send and ESDIS V0 IMS shall have the capability to receive Inventory Search Requests via V0 protocols.	mission essential
SDP5.1.2 Inventory Search and product Retrieval	V0-0070#A	ECS F&PRS	The ESDIS V0 IMS shall have the capability to send and ECS shall have the capability to receive Inventory Search Results via V0 protocols.	mission essential
SDP5.1.2 Inventory Search and product Retrieval	V0-0120#A	ECS F&PRS	The ECS shall have the capability to send and ESDIS V0 IMS shall have the capability to receive Product Requests via V0 protocols.	mission essential
SDP5.1.2 Browse Activities	IMS-0625#A	ECS F&PRS	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
SDP5.1.2 Browse Activities	V0-0100#A	ECS F&PRS	The ECS shall have the capability to send and the ESDIS V0 IMS shall have the capability to receive Browse Requests via V0 protocols.	mission essential
SDP5.1.2 Browse Activities	V0-0110#A	ECS F&PRS	The ESDIS V0 IMS shall have the capability to send and the ECS shall have the capability to receive Browse Results via V0 protocols.	mission essential
TEST	**Req-ID**	**Source**	**TEXT**	**Criticality**
SDP5.1.3 Guide Search	IMS-0625#A	ECS F&PRS	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
SDP5.1.3 Guide Search	V0-0080#A	ECS F&PRS	ECS shall have the capability to send and EOSDIS V0 IMS shall have the capability to receive Guide Search Requests	mission essential
SDP5.1.3 Guide Search	V0-0090#A	ECS F&PRS	The EOSDIS V0 IMS shall have the capability to send and ECS shall have the capability to receive Guide Search Results.	mission essential
TEST	**Req-ID**	**Source**	**TEXT**	**Criticality**
SDP5.2.1 Directory Search	V0-0370#A		The DAAC(s) shall have the capability to send and ECS shall have the capability to receive Advertising Information	mission essential
TEST	**Req-ID**	**Source**	**TEXT**	**Criticality**
SDP5.2.2 Inventory Search and Product Retrieval	EOSD1740#A	ECS F&PRS	ECS elements shall send the following types of data at a minimum to the ECS user community: a. Metadata b. Browse data c. Science data	mission essential
SDP5.2.2 Inventory Search and Product Retrieval	IMS-0625#A	ECS F&PRS	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
SDP5.2.2 Inventory Search and Product Retrieval	IMS-0915#A	ECS F&PRS	The IMS shall provide an interface to the Version 0 system for ordering data products to be delivered directly to the user, or as specified in ICDs.	mission essential
SDP5.2.2 Inventory Search and Product	V0-0150#A	ECS F&PRS	ESDIS V0 IMS shall have the capability to send and the ECS shall have the capability to receive Inventory Search Requests via V0 protocols.	mission essential

Retrieval				
SDP5.2.2 Inventory Search and Product Retrieval	V0-0160#A	ECS F&PRS	ECS shall have the capability to send and ESDIS V0 IMS shall have the capability to receive Inventory Search Results via V0 protocols.	mission essential
SDP5.2.2 Inventory Search and Product Retrieval	V0-0230#A	ECS F&PRS	The ESDIS V0 IMS shall have the capability to send and ECS shall have the capability to receive Product Requests via V0 protocols.	mission essential
SDP5.2.2 Browse Activities	IMS-0625#A	ECS F&PRS	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
SDP5.2.2 Browse Activities	V0-0190#A	ECS F&PRS	V0 ESDIS IMS shall have the capability to send and ECS shall have the capability to receive Browse Requests [implementation issue 2].	mission essential
SDP5.2.2 Browse Activities	V0-0200#A	ECS F&PRS	The ECS shall have the capability to send and V0 ESDIS IMS shall have the capability to receive Browse Results [implementation issue 2].	mission essential
TEST	**Req-ID**	**Source**	**TEXT**	**Criticality**
SDP5.2.3 Guide Search	IMS-0625#A	ECS F&PRS	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	mission fulfillment
SDP5.2.3 Guide Search	V0-0170#A	ECS F&PRS	V0 ESDIS IMS shall have the capability to send and ECS shall have the capability to receive Guide Search Requests [implementation issue 2].	mission essential
SDP5.2.3 Guide Search	V0-0180#A	ECS F&PRS	The ECS shall have the capability to send and V0 ESDIS IMS shall have the capability to receive Guide Search Results [implementation issue 2].	mission essential